

ECL-AM10Q

10.1" DIGITAL WATERPROOF FULL TOUCH MONITOR
FOR HEAVY DUTY INDUSTRY



Design and Specifications are subject to change without notice.



Monitor screen can be difficult to see when exposed to direct sunlight. If your surroundings are too bright to see the screen, such as outdoors in direct sunlight, avoid direct sunlight or use a sun visor.

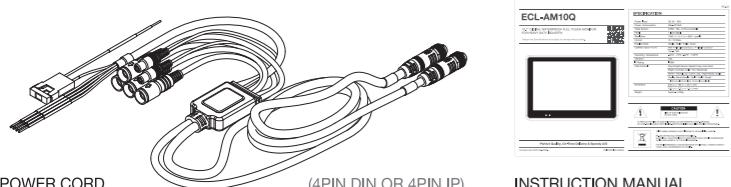
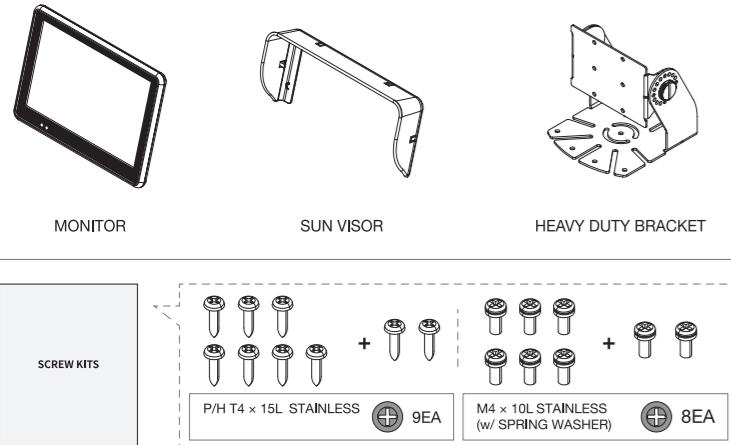
Perfect Quality, On-Time Delivery & Speedy A/S

RELEASE DATE NOV 18, 2024

PRINTED IN KOREA

PACKAGE CONTENTS

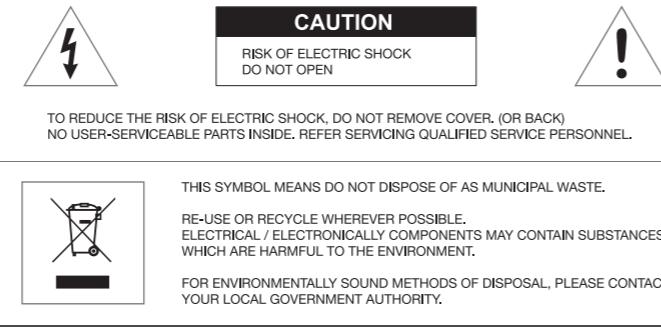
Please check that you have the correct contents before using this product.
If any items are missing, please contact your dealer.



You are cautioned that any changes or modifications which is not expressed or approved in this manual could void your warranty and cause the equipment to malfunction.

SPECIFICATION

Power Input	DC 9V ~ 80V
Power Consumption	Max. 30 Watt
Video System	NTSC / PAL, A-HD compatible
Panel	10.1 Inch Digital
Brightness	500cd/m ²
Resolution	1280 (H) x 800 (V) pixels
Format	16 : 10 Wide
Display Mode	Single / Split / Triple / Quad
Camera input (4 CH)	Mini 4 PIN DIN Connector or 4 PIN IP Connector 1Vp-p 75Ω
Operating Temperature	-40°C ~ 70°C (-40°F ~ 158°F)
Vibration	10G
IP Rating	IP69K
OSG Control	Day & Night Sensor, Speed Pulse, Auto Scan Bright, Contrast, Color, Tint, Sharpness Mirror / Normal, Up / Down, Day / Night Mode Display Mode (Single / Split / Triple / Quad) * Individual Control per Channel available
Dimension	262 (W) x 183 (H) x 33 (D) mm 10.3 (W) x 7.2 (H) x 1.3 (D) inch
Weight	Approx. 1,250g (Monitor Only)



CAUTION BEFORE USAGE



USE THE PRODUCT AFTER READING THE MANUAL CAREFULLY FOR SAFE USAGE
PLEASE INSTALL AND USE THE PRODUCT AFTER FULLY AWARE OF THE MANUAL
AND PRECAUTION.



DO NOT CUT OR DAMAGE THE CABLE RANDOMLY.
IT CAN CAUSE PRODUCT MALFUNCTION OR WATERPROOF FUNCTION DEFECT.
MANUFACTURER WILL NOT TAKE RESPONSIBILITY FOR THE MALFUNCTION.



ASK EXPERIENCED TECHNICIAN FOR PRODUCT INSTALLATION
INSTALLATION SHOULD BE DONE BY THE TECHNICIAN DUE TO PROFESSIONAL
SKILLS AND EXPERIENCE IS REQUIRED



STOP USING THE PRODUCT IMMEDIATELY IF BURNING SMELL, SMOKE OR SEVERE.
OVERHEATING OCCURS WHILE USAGE AND VISIT THE A/S CENTER



DO NOT INSTALL, OPEN OR MODIFY THE PRODUCT RANDOMLY
IT CAN CAUSE PRODUCT MALFUNCTION, ELECTRIC SHOCK, FIRE AND ALSO
WATERPROOF PROBLEM FOR WATERPROOF PRODUCT
CONTACT THE SERVICE CENTER AND ASK FOR A/S, IF REPAIRS ARE NECESSARY



MAKE SURE TO CONNECT POWER CABLE AND CAMERA CABLE IN RIGHT DIRECTION.
WRONG WIRE CONNECTION CAN CAUSE DAMAGE TO THE PRODUCT.



DO NOT APPLY EXCESSIVE PRESSURE TO THE LCD.
DUE TO PRESSURE THERE COULD BE SPOTS ON THE LCD SURFACE AND GET
DAMAGED. EXCHANGE FOR THE DAMAGE IS PROVIDED AT A COST.



WHEN USING TOUCH KEY EQUIPPED PRODUCT THE WATERPROOF FUNCTION
WILL NORMALLY OPERATE, BUT IF THERE IS WATER ON THE TOUCH KEY PANEL IT
COULD CAUSE MALFUNCTION.
SO PLEASE REMOVE THE MOISTURE BEFORE USAGE.



DO NOT DROP OR GIVE EXTERNAL SHOCK TO THE PRODUCT
THE PRODUCT SCREEN OR EXTERIOR CAN BE DAMAGED AND CAUSE MALFUNCTION
OF THE INTERNAL PARTS
IN THIS CASE NORMAL CUSTOMER SUPPORT AND A/S CAN'T BE RECEIVED



AVOID SEVERE ELECTROSTATIC CONDITION.
IT CAN CAUSE PRODUCT MALFUNCTION.



CONNECT THE MAIN POWER AFTER INSTALLATION
IT CAN CAUSE PRODUCT MALFUNCTION, FIRE AND ELECTRIC SHOCK



IF ANY DEBRIS IS FOUND INSIDE OF THE PRODUCT, DISCONNECT THE POWER CABLE
AND VISIT THE A/S CENTER.
IT CAN CAUSE ELECTRIC SHOCK OR MALFUNCTION WHEN USED CONTINUOUSLY.

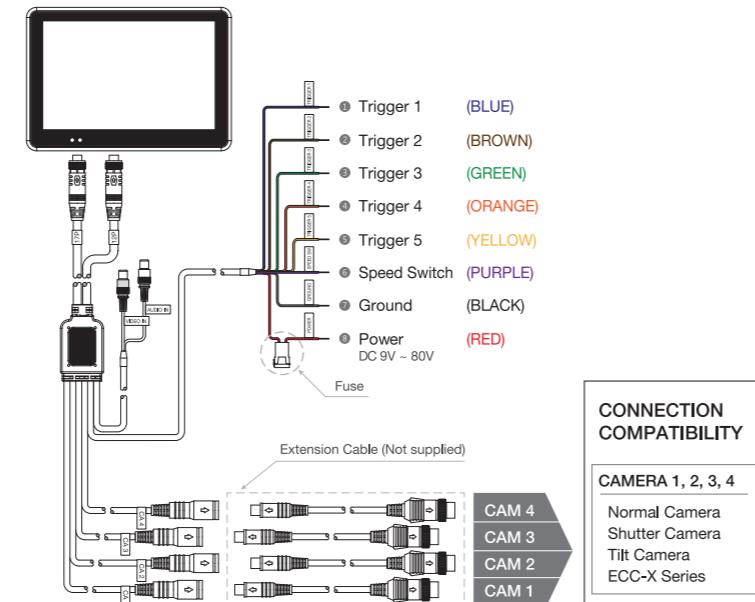


USE AUTHORIZED ACCESSORY & COMPONENTS
USING UNAUTHORIZED ACCESSORY & COMPONENTS CAN CAUSE PRODUCT
MALFUNCTION AND THE MANUFACTURER WILL NOT TAKE RESPONSIBILITY FOR
THE MALFUNCTION

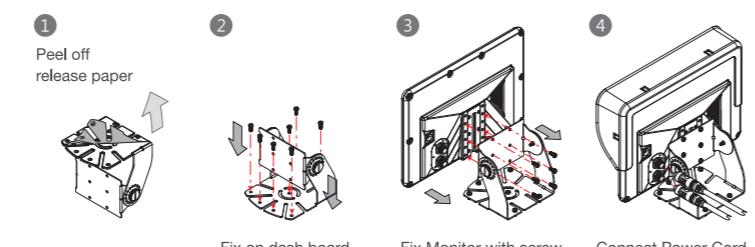


DO NOT CLEAN THE PRODUCT WITH CHEMICAL PRODUCT.
(ALCOHOL, BENZENE, ACETONE AND ETC)
IT CAN CAUSE DAMAGE OF THE PRODUCT SURFACE OR PRODUCT MALFUNCTION.

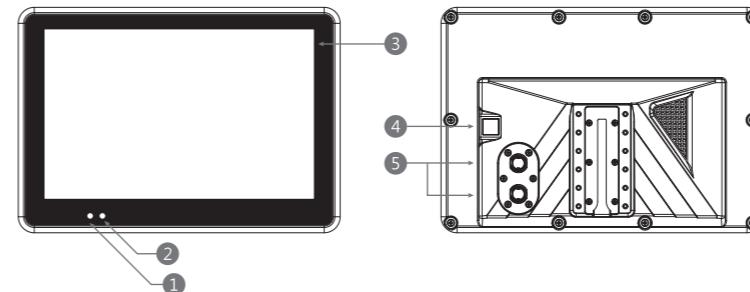
SYSTEM CONNECTION



BRACKET INSTALLATION



OPERATIONS



1 POWER LED

Power connected, Screen on LED GREEN
Power connected, Screen off LED RED
Power disconnect LED OFF

2 DAY / NIGHT SENSOR

Auto brightness sensor. Automatically adjust screen brightness based on the current lighting conditions.

3 SCREEN

Tap to screen on.
Tap to screen off on bottom right of CHANNEL LIST menu screen.

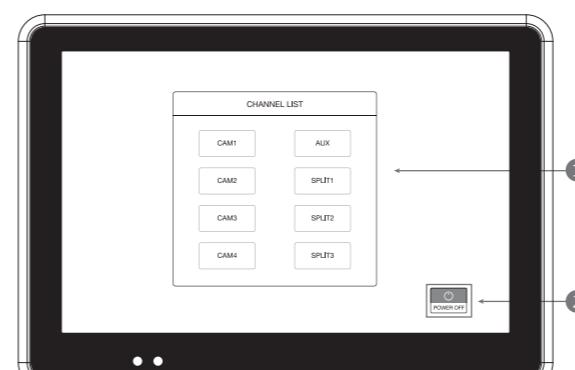
4 Restart button

Press button to restart monitor.
Use when monitor is crashed and stop operating.

5 Plug

Connect two Power Connectors (12 Pin and 17 Pin Cable) to Plug.
You must connect both cable connector to operate Monitor.

CHANNEL LIST



Tap to pop up CHANNEL LIST.
CHANNEL LIST disappears within 7 seconds if there is no more touch input.

1 CHANNEL LIST

Selectable CHANNEL displayed.

Selecting a channel displays a single full screen for the selected channel.

As an exception, if select SPLIT displays, screen display 2 to 4 channels on side by side as set to DISPLAY TYPE and DISPLAY VIEW TYPE in DISPLAY MODE menu.

2 POWER OFF

Tap to screen off monitor.

While AUTO SCAN activate, user can not pop up CHANNEL LIST menu on the screen.

OPERATIONS - MENU

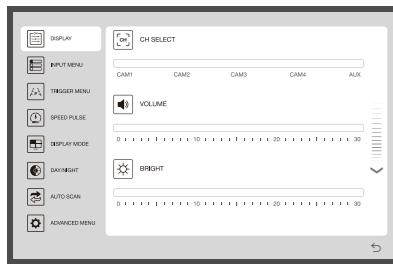
■ MENU



Tap and hold to pop up MENU.
MENU disappears within 7 seconds if there is no more touch input.

- ① Main Menu
 - Selectable Main Menu displayed.
 - Each main menu has its own sub menu.
 - Tap Main Menu to enter Sub Menu
- ② Sub Menu
 - Sub Menu is selected by tap Main menu, and it will be displayed on the right side of Main Menu.
- ③ Page Indicator
 - If all Sub Menu can not be displayed on the screen, Page Indicator is activated.
 - Tap to move on to the next page.
- ④ ESC
 - Tap to escape MENU

① DISPLAY



CH SELECT

Select the channel you want to set.
Each channel can have different settings.

VOLUME

Adjust the Volume of Monitor.

BRIGHT

Adjust Color's Lightness on the screen.

CONTRAST

Adjust contrast of different colors.

COLOR

Adjust the Color shown on the screen.

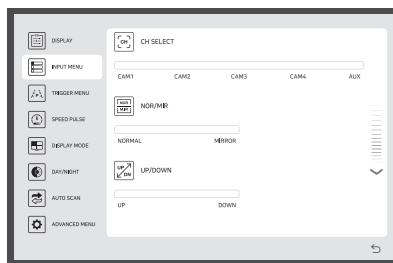
TINT

Adjust the amount of white added to the original color.

SHARPNESS

Adjust the clarity displayed on the screen.

② INPUT MENU



CH SELECT

Select the channel you want to set.
Each channel can have different settings.

NOR/MIR

Adjust Normal or Mirror view.
Mirror View is vertical reflect of Normal View.



UP/DOWN

Adjust Up or Down view.
Down View is horizontal reflect of Up View.



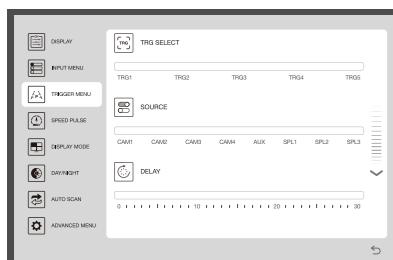
SORT

Different types of camera (Normal / Shutter / Tilt) can be connected to each channel.
Some Type of Camera has additional setting options.

X SERIES Turn the White LED ON and OFF of the X SERIES Camera

MANUAL TILT Adjust View Angle of the Tilt Camera by tap

③ TRIGGER MENU



TRG SELECT

Select the trigger you want to set.
Each trigger can have different settings.

SOURCE

Set each trigger by selecting 4 cameras and AUX, 3 split displays.

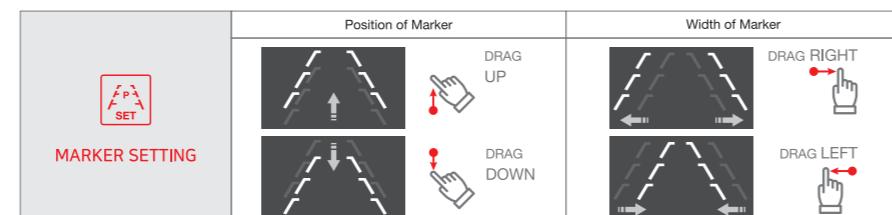
DELAY

Delay time of each trigger is adjustable 0 to 30 seconds.

If one camera is activated by an intermittent or wave signal (e.g. directional lights) the delay should be set enough longer than wave length to prevent flickering picture.

If MARKER is set to ON, Parking Marker is visible on screen when trigger is enabled.
Adjust the position and width of Parking Marker by Tap and Drag.

MARKER



OPERATIONS - MENU

④ SPEED PULSE



FUNCTION ON/OFF

PURPLE wire needs to be connected with the vehicle's tacho signal and SPEED PURSE needs to be selected ON.
* Wire Color can be changed, check the named sticker on wire first.

FREQUENCY

Selectable activated Frequency is 10 to 1,000Hz.
* Different type of tacho signal has different Frequency value for the same speed.

UNDER FREQUENCY CH

When set speed is reached, UNDER FREQUENCY CHANNEL is turned off.
Slows down, selected camera will be ON automatically again at same frequency.

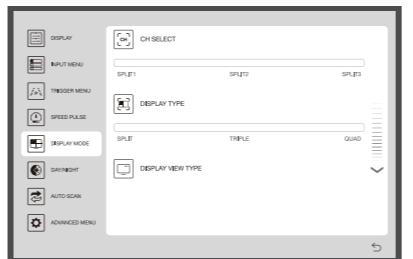
OVER FREQUENCY DISPLAY

Set OVER FREQUENCY DISPLAY to ON.
* OVER FREQUENCY DISPLAY cannot be activated when SPEED PULSE is off.

OVER FREQUENCY CH

When set speed is reached, OVER FREQUENCY CHANNEL is turned on.
Slows down, screen returns to UNDER FREQUENCY CHANNEL.

⑤ DISPLAY MODE



CH SELECT

Select the channel you want to set.
Each channel can have different settings.

DISPLAY TYPE

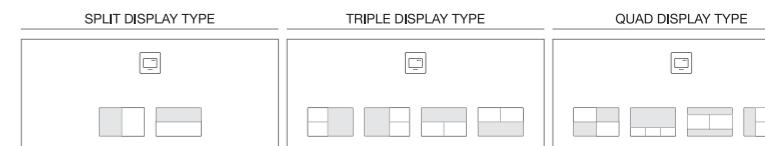
Select the number of Cameras displayed.

AUDIO

Audio function is only available on selected channel.

DISPLAY VIEW TYPE

Tap DISPLAY VIEW TYPE to activate, and choose DISPLAY VIEW TYPE.

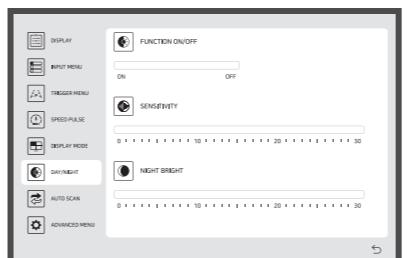


SOURCE

Set each SPLIT DISPLAY by selecting 4 cameras and AUX.
Same camera input can be set at same time in each source.

If AUX is set, CAM4 cannot be used. The same applies to the opposite case.

⑥ DAY / NIGHT



FUNCTION ON/OFF

DAY / NIGHT Sensor detects the current lighting conditions. If dark, DARK Mode activate.

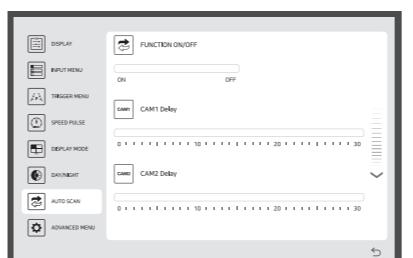
SENSITIVITY

Closer to 30, DARK Mode is activated when darker.

NIGHT BRIGHT

Adjust the screen brightness while DARK Mode is activated.

⑦ AUTO SCAN



FUNCTION ON/OFF

The Function to play or skip each channel or SOURCE display on the screen in preset order.
Tap to PAUSE AUTO SCAN and tap again to AUTO SCAN.

NOTE : While AUTO SCAN function activate, user can not pop up CHANNEL LIST menu on the screen.

CAM 1~4 Delay

Adjust time screen for each channel or SOURCE changes when AUTO SCAN function is activated.

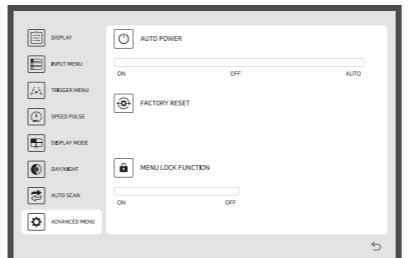
AUX Delay

Each channel and SOURCE can set the time from 0 to 30 seconds.

Selected channel and SOURCE will be skip if you set Delay time to "0".

SPLIT Delay

⑧ ADVANCED MENU



AUTO POWER ON Monitor starts with screen on.

AUTO POWER OFF Monitor starts with screen off.

AUTO POWER AUTO The state of the screen (on or off) is remembered before turning off the ignition.
The state of the remembered screen is maintained when the power is turned on again.

FACTORY RESET

Reset for Factory Setting.

MENU LOCK FUNCTION

Passwords can be used to prevent users from accessing the menu.